

# SEQUENCE LISTING

<110> Mathur, Brian  
Turner, C. Alexander Jr.

<120> Novel Human Lipocalin Homologs and Polynucleotides Encoding the Same

<130> LEX-0173-USA

<150> US 60/203,874

<151> 2000-05-12

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<212> DNA

<213> homo sapiens

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<213> homo sapiens

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			20					25					30		
Phe	Ser	Gly	Leu	Trp	Tyr	Val	Val	Ser	Met	Ala	Ser	Asp	Cys	Arg	Val
		35				40					45				
Phe	Leu	Gly	Lys	Lys	Asp	His	Leu	Ser	Met	Ser	Thr	Arg	Ala	Ile	Arg
	50				55					60					
Pro	Thr	Glu	Glu	Gly	Gly	Leu	His	Val	His	Met	Glu	Phe	Pro	Gly	Ala
65				70					75				80		
Asp	Gly	Cys	Asn	Gln	Val	Asp	Ala	Glu	Tyr	Leu	Lys	Val	Gly	Ser	Glu
			85					90					95		
Gly	His	Phe	Arg	Val	Pro	Ala	Leu	Gly	Tyr	Leu	Asp	Val	Arg	Ile	Val
		100					105					110			
Asp	Thr	Asp	Tyr	Ser	Ser	Phe	Ala	Val	Leu	Tyr	Ile	Tyr	Lys	Glu	Leu
		115					120					125			

Glu Gly Ala Leu Ser Thr Met Val Gln Leu Tyr Ser Arg Thr Gln Asp  
 130 135 140  
 Val Ser Pro Gln Ala Leu Lys Ala Phe Gln Asp Phe Tyr Pro Thr Leu  
 145 150 155 160  
 Gly Leu Pro Glu Asp Met Met Val Met Leu Pro Gln Ser Asp Ala Cys  
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 Asn Pro Glu Ser Lys Glu Ala Pro  
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 cctgtccatg tccaccaggg ccatcaggcc cacagaggag ggcggcctcc acgtccacat 180  
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 <213> homo sapiens

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 Gly Leu Pro Gly Gln Glu Gly Pro Pro Val His Val His Gln Gly His  
 35 40 45  
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 tccatggcat ctgactgcag ggtcttctct ggcaagaagg accacctgtc catgtccacc 180  
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<400> 6

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			20					25					30		
Phe	Ser	Gly	Leu	Trp	Tyr	Val	Val	Ser	Met	Ala	Ser	Asp	Cys	Arg	Val
		35					40					45			
Phe	Leu	Gly	Lys	Lys	Asp	His	Leu	Ser	Met	Ser	Thr	Arg	Ala	Ile	Arg
	50					55					60				
Pro	Thr	Glu	Glu	Gly	Gly	Leu	His	Val	His	Met	Glu	Phe	Pro	Gly	Ala
65					70					75				80	
Asp	Gly	Cys	Asn	Gln	Val	Asp	Ala	Glu	Tyr	Leu	Glu	Ser	Leu	His	Pro
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<212> DNA

<213> homo sapiens

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<212> PRT

<213> homo sapiens

<400> 8

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Thr	Ala	Gln	Ala	Glu	Val	Leu	Leu	Gln	Pro	Asp	Phe	Asn	Ala	Glu	Lys
			20					25					30		
Val	Pro	Gly	Ala	Ser	Ala	Val	Leu	Trp	Trp	Val	Gly	Ala	Gly	Pro	Leu
		35				40					45				
Pro	Glu	Thr	Thr												
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<210> 9

<211> 579

<212> DNA

<213> homo sapiens

<400> 9

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ttctcaggcc	tctggtagct	ggctctccatg	gcattctgact	gcagggtctt	cctgggcaag	180
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gtgggctccg	agggacactt	cagagtcccg	gccttgggct	acctggacgt	gcgcatcggtg	360
gacacagact	acagctccct	cgccgtccct	tacatctaca	aggagctgga	gggggcgctc	420
agcaccatgg	tgcagctcta	cagccggacc	caggatgtga	gtccccaggc	tctgaaggcc	480
ttccaggact	tctacccgac	cctggggctc	cccaggagaca	tgatgggtcat	gctgccccag	540
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<210> 10  
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 Gln Pro Asp Phe Asn Ala Glu Lys Phe Ser Gly Leu Trp Tyr Val Val  
 35 40 45  
 Ser Met Ala Ser Asp Cys Arg Val Phe Leu Gly Lys Lys Asp His Leu  
 50 55 60  
 Ser Met Ser Thr Arg Ala Ile Arg Pro Thr Glu Glu Gly Gly Leu His  
 65 70 75 80  
 Val His Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala  
 85 90 95  
 Glu Tyr Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu  
 100 105 110  
 Gly Tyr Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala  
 115 120 125  
 Val Leu Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val  
 130 135 140  
 Gln Leu Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala  
 145 150 155 160  
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<210> 11  
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 ggtcttcctg ggcaagaagg accacctgtc catgtccacc agggccatca ggcccacaga 180  
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<210> 12  
 <211> 76  
 <212> PRT  
 <213> homo sapiens

<400> 12  
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 Gln Pro Asp Phe Asn Ala Glu Lys Gly Leu Pro Gly Gln Glu Gly Pro  
 35 40 45  
 Pro Val His Val His Gln Gly His Gln Ala His Arg Gly Gly Arg Pro  
 50 55 60

Pro Arg Pro His Gly Val Pro Gly Gly Gly Arg Leu  
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<210> 13  
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ttctcaggcc tctggtacgt ggtctccatg gcactctgact gcagggtctt cctgggcaag 180  
aaggaccacc tgtccatgtc caccagggcc atcaggccca cagaggaggc cggcctccac 240  
gtccacatgg agttcccggg ggcggacggc tgtaaccagg tggatgccga gtacctggag 300  
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taa 363

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<212> PRT  
<213> homo sapiens

<400> 14  
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Gln Pro Asp Phe Asn Ala Glu Lys Phe Ser Gly Leu Trp Tyr Val Val  
35 40 45  
Ser Met Ala Ser Asp Cys Arg Val Phe Leu Gly Lys Lys Asp His Leu  
50 55 60  
Ser Met Ser Thr Arg Ala Ile Arg Pro Thr Glu Glu Gly Gly Leu His  
65 70 75 80  
Val His Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala  
85 90 95  
Glu Tyr Leu Glu Ser Leu His Pro Pro Pro Pro Ala Cys Gly Met Pro  
100 105 110  
Cys Gly Thr Ser Leu Ser Ile Gln  
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<213> homo sapiens

<400> 16

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20 25 30  
Gln Pro Asp Phe Asn Ala Glu Lys Val Pro Gly Ala Ser Ala Val Leu  
35 40 45  
Trp Trp Val Gly Ala Gly Pro Leu Pro Glu Thr Thr  
50 55 60

<210> 17

<211> 597

<212> DNA

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<400> 17

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gacttcaatg ctgaaaagtt ctcaggcctc tggtagctgg tctccatggc atctgactgc 180  
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gaggagggcg gcctccacgt ccacatggag ttcccggggg cggacggctg taaccagggtg 300  
gatgccgagt acctgaaggt gggctccgag ggacacttca gagtcccggc cttgggctac 360  
ctggacgtgc gcatcgtgga cacagactac agctccttcg ccgtccttta catctacaag 420  
gagctggagg gggcgctcag caccatgggt cagctctaca gccggacca ggatgtgagt 480  
ccccaggctc tgaaggcctt ccaggacttc taccgaccc tggggctccc cgaggacatg 540  
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<210> 18

<211> 198

<212> PRT

<213> homo sapiens

<400> 18

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20 25 30  
Gln Ala Glu Val Leu Leu Gln Pro Asp Phe Asn Ala Glu Lys Phe Ser  
35 40 45  
Gly Leu Trp Tyr Val Val Ser Met Ala Ser Asp Cys Arg Val Phe Leu  
50 55 60  
Gly Lys Lys Asp His Leu Ser Met Ser Thr Arg Ala Ile Arg Pro Thr  
65 70 75 80  
Glu Glu Gly Gly Leu His Val His Met Glu Phe Pro Gly Ala Asp Gly  
85 90 95  
Cys Asn Gln Val Asp Ala Glu Tyr Leu Lys Val Gly Ser Glu Gly His  
100 105 110  
Phe Arg Val Pro Ala Leu Gly Tyr Leu Asp Val Arg Ile Val Asp Thr  
115 120 125  
Asp Tyr Ser Ser Phe Ala Val Leu Tyr Ile Tyr Lys Glu Leu Glu Gly  
130 135 140  
Ala Leu Ser Thr Met Val Gln Leu Tyr Ser Arg Thr Gln Asp Val Ser  
145 150 155 160  
Pro Gln Ala Leu Lys Ala Phe Gln Asp Phe Tyr Pro Thr Leu Gly Leu  
165 170 175  
Pro Glu Asp Met Met Val Met Leu Pro Gln Ser Asp Ala Cys Asn Pro

180  
Glu Ser Lys Glu Ala Pro  
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185

190

<210> 19  
<211> 249  
<212> DNA  
<213> homo sapiens

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cggtgtaa 249

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<212> PRT  
<213> homo sapiens

<400> 20  
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Gln Ala Glu Val Leu Leu Gln Pro Asp Phe Asn Ala Glu Lys Gly Leu  
35 40 45  
Pro Gly Gln Glu Gly Pro Pro Val His Val His Gln Gly His Gln Ala  
50 55 60  
His Arg Gly Gly Arg Pro Pro Arg Pro His Gly Val Pro Gly Gly Gly  
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Arg Leu

<210> 21  
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<212> DNA  
<213> homo sapiens

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gacttcaatg ctgaaaagtt ctcaggcctc tggtagctgg tctccatggc atctgactgc 180  
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gaggagggcg gcctccacgt ccacatggag ttcccggggg cggacggctg taaccagggtg 300  
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<212> PRT  
<213> homo sapiens

<400> 22  
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		20					25					30			
Gln	Ala	Glu	Val	Leu	Leu	Gln	Pro	Asp	Phe	Asn	Ala	Glu	Lys	Phe	Ser
		35					40					45			
Gly	Leu	Trp	Tyr	Val	Val	Ser	Met	Ala	Ser	Asp	Cys	Arg	Val	Phe	Leu
		50				55					60				
Gly	Lys	Lys	Asp	His	Leu	Ser	Met	Ser	Thr	Arg	Ala	Ile	Arg	Pro	Thr
65					70					75				80	
Glu	Glu	Gly	Gly	Leu	His	Val	His	Met	Glu	Phe	Pro	Gly	Ala	Asp	Gly
				85					90					95	
Cys	Asn	Gln	Val	Asp	Ala	Glu	Tyr	Leu	Glu	Ser	Leu	His	Pro	Pro	Pro
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Pro	Ala	Cys	Gly	Met	Pro	Cys	Gly	Thr	Ser	Leu	Ser	Ile	Gln		
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<210> 23  
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 <213> homo sapiens

<400> 23  
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 gacttcaatg ctgaaaaggt accaggggcc tctgctgtcc tgtggtgggt gggagctggg 180  
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<210> 24  
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 <213> homo sapiens

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Ser	Phe	Leu	Leu	Gly	Ala	Ile	Leu	Thr	Leu	Leu	Trp	Ala	Pro	Thr	Ala
		20					25					30			
Gln	Ala	Glu	Val	Leu	Leu	Gln	Pro	Asp	Phe	Asn	Ala	Glu	Lys	Val	Pro
		35				40					45				
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Thr Thr  
 65

<210> 25  
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 <212> DNA  
 <213> homo sapiens

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 ggctgtaacc aggtggatgc cgagtacctg aaggtgggct ccgagggaca cttcagagtc 180  
 ccggccttgg gctacctgga cgtgcgcac gtggacacag actacagctc cttcgccgtc 240  
 ctttacatct acaaggagct ggagggggcg ctcagcacca tgggtgcagct ctacagccgg 300  
 acccaggatg tgagtcccca ggctctgaag gccttcagg acttctaccc gacctggggg 360



ctccccgagg acatgatggt catgctgccc cagtcagatg catgcaaccc tgagagcaag  
gaggcgccct ga

420  
432

<210> 26  
<211> 143  
<212> PRT  
<213> homo sapiens

<400> 26  
Met Ala Ser Asp Cys Arg Val Phe Leu Gly Lys Lys Asp His Leu Ser  
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20 25 30  
His Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu  
35 40 45  
Tyr Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly  
50 55 60  
Tyr Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val  
65 70 75 80  
Leu Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln  
85 90 95  
Leu Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe  
100 105 110  
Gln Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met  
115 120 125  
Leu Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro  
130 135 140

<210> 27  
<211> 216  
<212> DNA  
<213> homo sapiens

<400> 27  
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gccatcaggc ccacagagga gggcggcctc cacgtccaca tggagttccc gggggcggac 120  
ggctgtaacc aggtggatgc cgagtacctg gagtctctcc atcctccacc cccgcctgt 180  
gggatgcctt gtgggacgtc tctttctatt caataa 216

<210> 28  
<211> 71  
<212> PRT  
<213> homo sapiens

<400> 28  
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Met Ser Thr Arg Ala Ile Arg Pro Thr Glu Glu Gly Gly Leu His Val  
20 25 30  
His Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu  
35 40 45  
Tyr Leu Glu Ser Leu His Pro Pro Pro Ala Cys Gly Met Pro Cys  
50 55 60  
Gly Thr Ser Leu Ser Ile Gln  
65 70